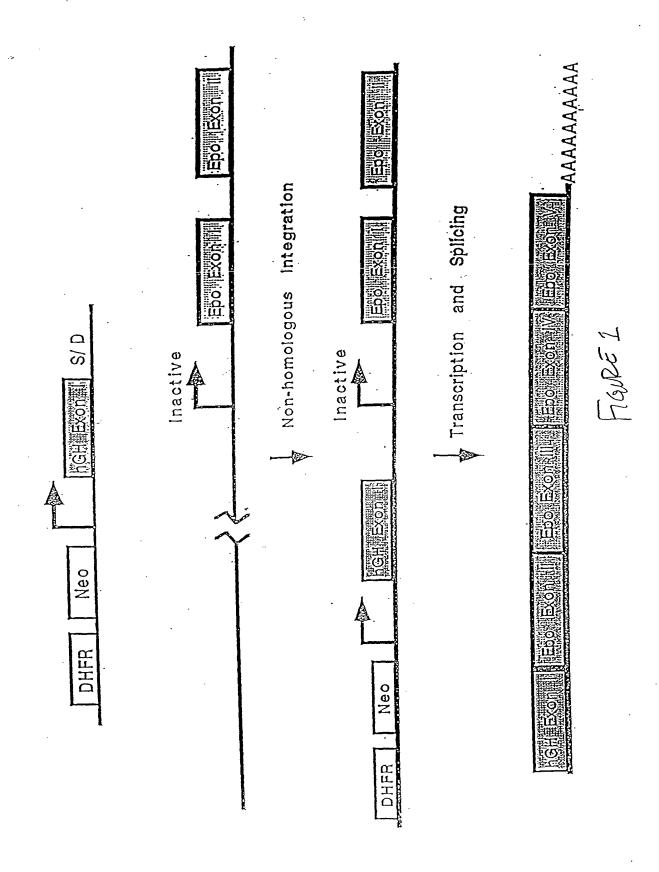
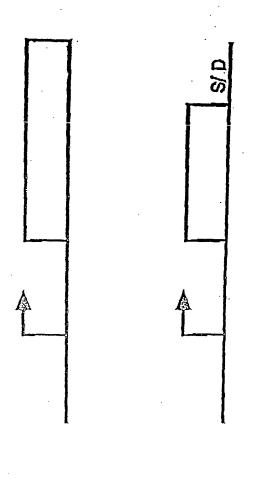
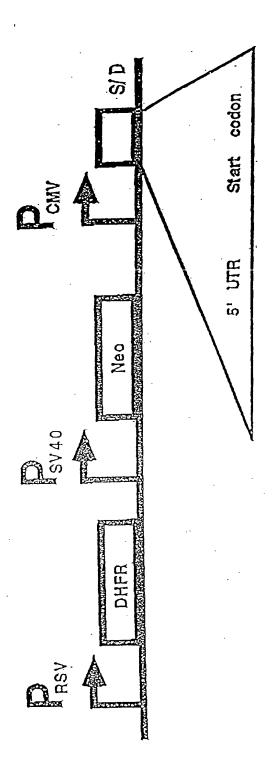
Random Activation of Gene Expression (RAGE)





S/D Splice Donor

Untranslated



119, 4

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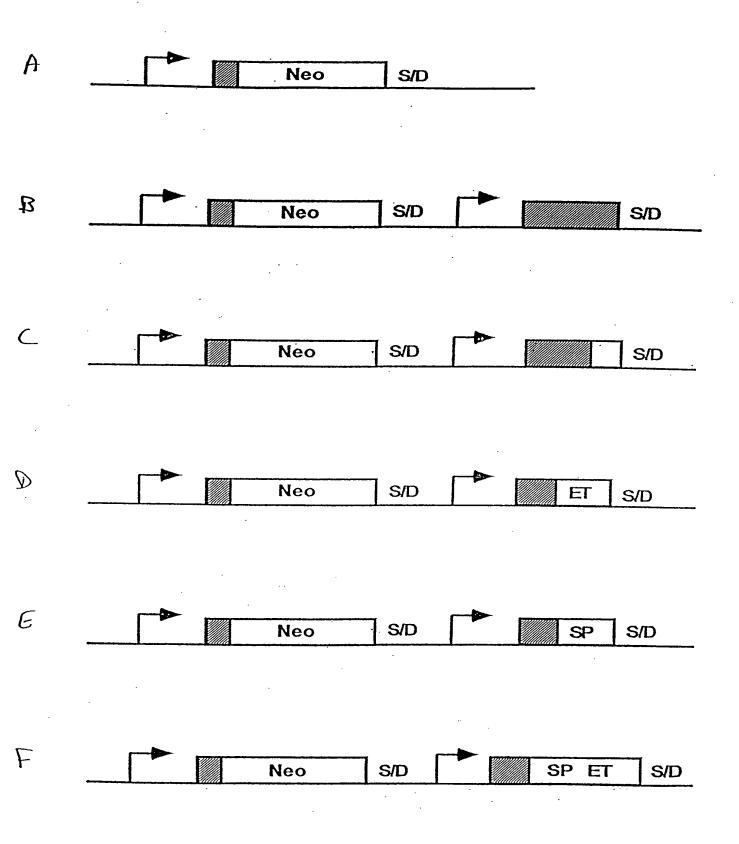
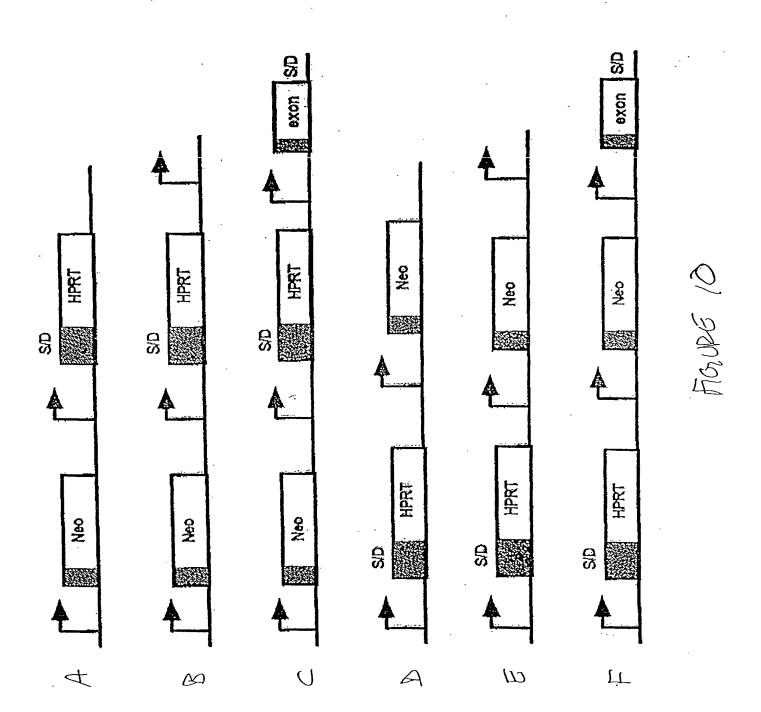


FIGURE 8





B S/D Neo pA S/D

FIGURE 11

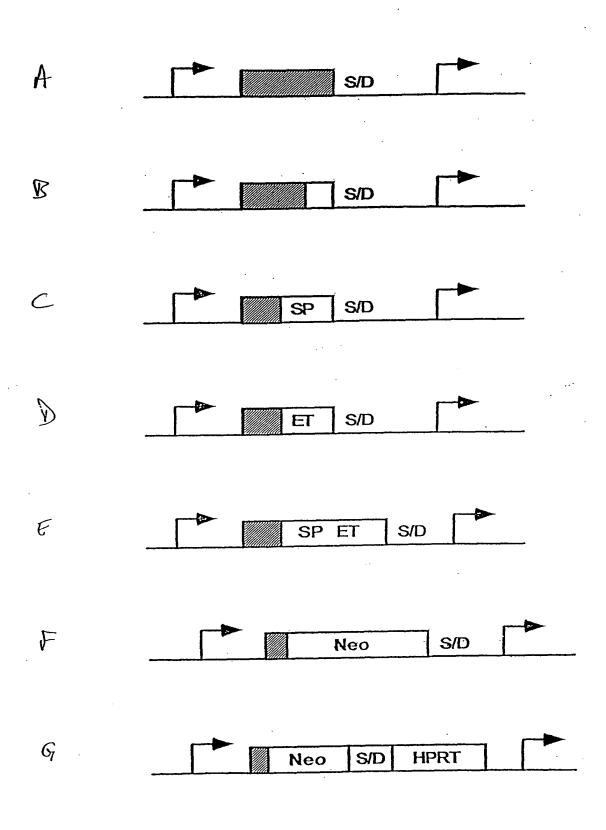


FIGURE 12

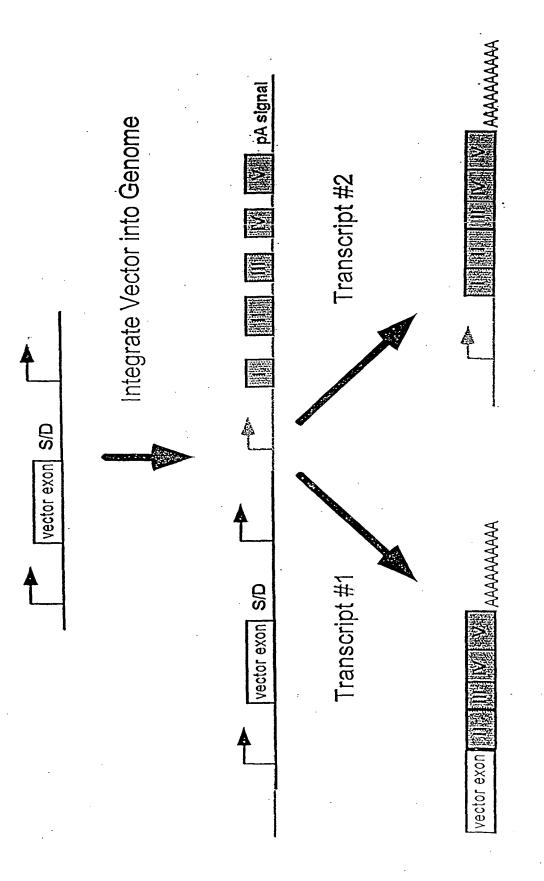


Figure 13

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GTCCCGCCCTAACTCCGCCCATCCCGCCCCTAACTCCGCCCAGTTCCGCCCATTCTCCGCCCC ATGGCTGACTAATTTTTTTTATTTATGCAGAGGCCGAGGCCGCCTCGGCCTCTGAGCTATTCC AGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAAGCTTGATTCTTCTGACA CAACAGTCTCGAACTTAAGGCTAGAGCCACCATGATTGAACAAGATGGATTGCACGCAGGTT CTCCGGCCGCTTGGGTGGAGAGGCTATTCGGCTATGACTGGGCACAACAGACAATCGGCTGC TCTGATGCCGCCGTGTTCCGGCTGTCAGCGCAGGGGCGCCCGGTTCTTTTTGTCAAGACCGAC GGGCGTTCCTTGCGCAGCTGTGCTCGACGTTGTCACTGAAGCGGGAAGGGACTGGCTGCTATT GGGCGAAGTGCCGGGGCAGGATCTCCTGTCATCTCACCTTGCTCCTGCCGAGAAAGTATCCAT CATGGCTGATGCAATGCGGCGGCTGCATACGCTTGATCCGGCTACCTGCCCATTCGACCACCA AGCGAAACATCGCATCGAGCGAGCACGTACTCGGATGGAAGCCGGTCTTGTCGATCAGGATG ATCTGGACGAAGAGCATCAGGGGCTCGCGCCAGCCGAACTGTTCGCCAGGCTCAAGGCGCGC **ATGCCCGACGCGAGGATCTCGTCGTGACCCATGGCGATGCCTGCTTGCCGAATATCATGGTG** GAAAATGGCCGCTTTTCTGGATTCATCGACTGTGGCCGGCTGGGTGTGGCGGACCGCTATCAG GACATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGGCGGCGAATGGGCTGACCGCTTC CTCGTGCTTTACGGTATCGCCGCTCCCGATTCGCAGCGCATCGCCTTCTATCGCCTTCTTGACG CACGATGGCCGCAATAAAATATCTTTATTTTCATTACATCTGTGTGTTGGTTTTTTGTGTGAAG .CACCCGCCAACACCCGCTGACGCCCTGACGGGCTTGTCTGCTCCGGGCATCCGCTTACAGA CAAGCTGTGACCGTCTCCGGGAGCTGCATGTGTCAGAGGTTTTCACCGTCATCACCGAAACGC GCGAGACGAAAGGCCTCGTGATACGCCTATTTTTATAGGTTAATGTCATGATAATAATGGTT TCTTAGACGTCAGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATTTTTCT AAATACATTCAAATATGTATCCGCTCATGAGACAATAACCCTGATAAATGCTTCAATAATATT GAAAAAGGAAGAGTATGAGTATTCAACATTTCCGTGTCGCCCTTATTCCCTTTTTTGCGGCAT TTTGCCTCCTGTTTTTGCTCACCCAGAAACGCTGGTGAAAGTAAAAGATGCTGAAGATCAGT TGGGTGCACGAGTGGGTTACATCGAACTGGATCTCAACAGCGGTAAGATCCTTGAGAGTTTTC GCCCGAAGAACGTTTTCCAATGATGAGCACTTTTAAAGTTCTGCTATGTGGCGCGCTATTAT CCCGTATTGACGCCGGGCAAGAGCAACTCGGTCGCCGCATACACTATTCTCAGAATGACTTGG TTGAGTACTCACCAGTCACAGAAAAGCATCTTACGGATGGCATGACAGTAAGAGAATTATGC ACCGAAGGAGCTAACCGCTTTTTTGCACAACATGGGGGATCATGTAACTCGCCTTGATCGTTG GGAACCGGAGCTGAATGAAGCCATACCAAACGACGAGCGTGACACCACGATGCCTGTAGCAA TAATAGACTGGATGGAGGCGGATAAAGTTGCAGGACCACTTCTGCGCTCGGCCCTTCCGGCT GGCTGGTTTATTGCTGATAAATCTGGAGCCGGTGAGCGTGGGTCTCGCGGTATCATTGCAGCA CTGGGGCCAGATGGTAAGCCCTCCCGTATCGTAGTTATCTACACGACGGGGAGTCAGGCAAC TATGGATGAACGAAATAGACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATTGGTAAC TGTCAGACCAAGTTTACTCATATATACTTTAGATTGATTTAAAACTTCATTTTTAATTTAAAAG GATCTAGGTGAAGATCCTTTTTGATAATCTCATGACCAAAATCCCTTAACGTGAGTTTTCGTT CCACTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTGAGATCCTTTTTTTCTGCG AGAGCTACCAACTCTTTTTCCGAAGGTAACTGGCTTCAGCAGAGCGCAGATACCAAATACTGT CCTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTCTGTAGCACCGCCTACATACCT CGCTCTGCTAATCCTGTTACCAGTGGCTGCCCAGTGGCGATAAGTCGTGTCTTACCGGGTT **GGACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTCGGGCTGAACGGGGGGTTCGTGCA** CACAGCCCAGCTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAGCTATGA GAAAGCGCCACGCTTCCCGAAGGGAGAAAGGCGGACAGGTATCCGGTAAGCGGCAGGGTCG GAACAGGAGAGCGCACGAGGGAGCTTCCAGGGGGAAACGCCTGGTATCTTTATAGTCCTGTC TGGAAAAACGCCAGCAACGCGGCCTTTTTACGGTTCCTGGCCTTTTGCTGGCCTTTTGCTCAC ATGGCTCGAC

FIGURE 14B

GATCITCAATATTGGCCATTAGCCATATTATTCATTGGTTATATAGCATAAATCAATATTGGCT ATTGGCCATTGCATACGTTGTATCTATATCATAATATGTACATTTATATTGGCTCATGTCCAAT ATGACCGCCATGTTGGCATTGATTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATT AGTTCATAGCCCATATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTG ACCGCCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAAT AGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAAACTGCCCACTTGGCAGTACA TCAAGTGTATCATATGCCAAGTCCGCCCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTG GCATTATGCCCAGTACATGACCTTACGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGT CATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACACCAATGGGCGTGGATAGCGGTTTGA CGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCA CTGAATTCTGACGACCTACTGATTAACGGCCATAGAGGCCTCCTGCAGATCACTAGAAGCTTT AACTTAAGCTGCAGTGACTCTCTTAAatccaccatggctacagGTGAGTACTCGCTACCTTAAGAGAGG CCTATCTGGCCAGTTAGCAGTCGAAGAAGAAGAAGTTTAAGAGAGCCGAAACAAGCGCTCATGA GCCCGAAGTGGCGAGCCCGATCTTCCCCCATCGGTGATGTCGGCGATATAGGCGCCAGCAACC GCACCTGTGGCGCCGGTGATGCCGGCCACGATGCGTCCGGCGTAGAGGATCCACAGGACGGG TGTGGTCGCCATGATCGCGTAGTCGATAGTGGCTCCAAGTAGCGAAGCGAGCAGGACTGGGC GGCGGCCAAAGCGGTCGGACAGTGCTCCGAGAACGGGTGCGCATAGAAATTGCATCAACGCA TATAGCGCTAGATCCTTGCTAGAGTCGAGATCTGTCGAGCCATGTGAGCAAAAGGCCAGCAA AAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGAC GAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATA CCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGG ATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTAT CTCAGTTCGGTGTAGGTCGTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGCCC GACCGCTGCGCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCG CCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGTGCTACAGA GTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCT GCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAACCACCG CTGGTAGCGGTGGTTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAA GAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCACGTTAAGGG ATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCTTTTatcggtgtgaaataccgcacagatgc gtaaggagaaaataccgcatcaggaaattgtaagcgttaataattcagaagaactcgtcaagaaggcgatagaaggcgatgcgctgcgaatcgggagc ggcgataccgtaaagcacgaggaagcggtcagcccattcgccgccaagctcttcagcaatatcacgggtagccaacgctatgtcctgatagcggtccgc  ${\bf cacacccag} cegg ceacagteg at gaat ceagaaaaag egg ceattt te caccat gat at tegg caag cagg catego catego$ g ccg tcg g g cat g ctcg g cct g g cg a a cagt tcg g ctg g cg g g g ccct g at g ctct tcg tcc a g at cat cct g at cg a cag g cct tcc a g at cat cct g at cg a cag g cct tcc a g at cat cct g at cg a cag g cct tcc a g at cat cct g at cg a cag g cct tcc a g at cat cct g at cg a cag g cct tcc a g at cat cct g at cg a cag g cct g cct g at cg a cag g cct g cct g at cg a cag g cct g cct g at cg a cag g cct g cct g at cg a cag g cct g cct g at cg a cag g cct g cct g at cg a cag g cct g ccttocgag tacgtgctcgctcgatgcttgcttggttggtcgaatgggcaggtagccgggatcaagcgtatgcagccgccgcattgcatcagccatgatggatactttctcggcaggagcaaggtgagatgacaggagatcctgcccggcacttcgcccaatagcagccagtcccttcccgcttcagtgacaacgtcga aaagaaccgggcgcccctgcgctgacagccggaacacggcggcatcagagcagccgattgtctgttgtgcccagtcatagccgaatagcctctccaccc aagcggccggagaacctgcgtgcaatccatcttgttcaatcatgcgaaacgatcctcatcctgtctcttgatcagagcttgatcccctgcgccatcagatcctt ggcggcgagaaagccatccagtttactttgcagggcttgtcaaccttaccagatAAAAGTGCTCATCATTGGAAAACGTTCAA TTeTGAGGCGGAAAGAACCAGCTGTGGAATGTGTGTCAGTTAGGGTGTGGAAAGTCCCCAGG CTCCCCAGCAGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCAGCAACCAGGTGTGGAA ATAGTCCCGCCCTAACTCCGCCCATCCCGCCCCTAACTCCGCCCAGTTCCGCCCATTCTCCG CCCCATGGCTGACTAATTTTTTTATTTATGCAGAGGCCGAGGCCGCCTCGGCCTCTGAGCTA TTCCAGAAGTAGTGAGGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAAGCTTGATTCTTCT GACACAACAGTCTCGAACTTAAGGCTAGAGCCACCATGATTGAACAAGATGGATTGCACGCA GGTTCTCCGGCCGCTTGGGTGGAGAGGCTATTCGGCTATGACTGGGCACAACAGACAATCGG CTGCTCTGATGCCGCCGTGTTCCGGCTGTCAGCGCAGGGGCGCCCGGTTCTTTTTGTCAAGAC CGACCTGTCCGGTGCCCTGAATGAACTGCAGGACGAGGCAGCGCGGCTATCGTGGCTGCCA CGACGGCGTTCCTTGCGCAGCTGTGCTCGACGTTGTCACTGAAGCGGAAGGGACTGGCTG-

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FIGURE 16A

GTATCCATCATGGCTGATGCAATGCGGCGGCTGCATACGCTTGATCCGGCTACCTGCCCATTC GACCACCAAGCGAAACATCGCATCGAGCGAGCACGTACTCGGATGGAAGCCGGTCTTGTCGA TCAGGATGATCTGGACGAAGAGCATCAGGGGCTCGCCCCAGCCGAACTGTTCGCCAGGCTCA AGGCGCGCATGCCCGACGGCGAGGATCTCGTCGTGACCCATGGCGATGCCTGCTTGCCGAAT ATCATGGTGGAAAATGGCCGCTTTTCTGGATTCATCGACTGTGGCCGGCTGGGTGTGGCGGAC CGCTATCAGGACATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGGCGGCGAATGGGC TGACCGCTTCCTCGTGCTTTACGGTATCGCCGCTCCCGATTCGCAGCGCATCGCCTTCTATCGC CTTCTTGACGAGccaTTCtgctggatggCTacAGGTcgcagccctggcgtcgtgattagtgatgatgaaccaggttatgaccttgattta tttigcatacctaatcattatgctgaggatttggaaagggtgtttattcctcatggactaattatggacaggactgaacgtcttgctcgagatgtgatgaaggag atgggaggccatcacattgtagccctctgtgtgctcaaggggggctataaattctttgctgacctgctggattacatcaaagcactgaatagaaatagtgata gatocattoctatgactgtagattttatcagactgaagagctattgtaatgaccagtcaacaggggacataaaagtaattggtggagatgatctctcaacttta actggaaagaatgtcttgattgtggaagatataattgacactggcaaaacaatgcagactttgctttccttggtcaggcagtataatccaaagatggtcaagg tcgcaagcttgctggtgaaaaggaccccacgaagtgttggatataagccagactttgttggatttgaaattccagacaagtttgttgtaggatatgcccttga ACACCCTAACTGACACACATTCCACAGCTGGTTCTTTCCGCCTCAGAAGGTACACAGGCGAAA TTGTAAGCGTTAATATTTTGTTAAAATTCGCGTTAAATTTTTGTTAAATCAGCTCATTTTTTAA **CCAATAGGCCGAAATCGCCAAAATCCCTTATAAATCAAAAGAATAGACCGAGATAGGGTTGA** GTGTTGTTCCAGTTTGGAACAAGAGTCCACTATTAAAGAACGTGGACTCCAACGTCAAAGGG CGAAAAACCGTCTATCAGGGCGATGGCCCAC

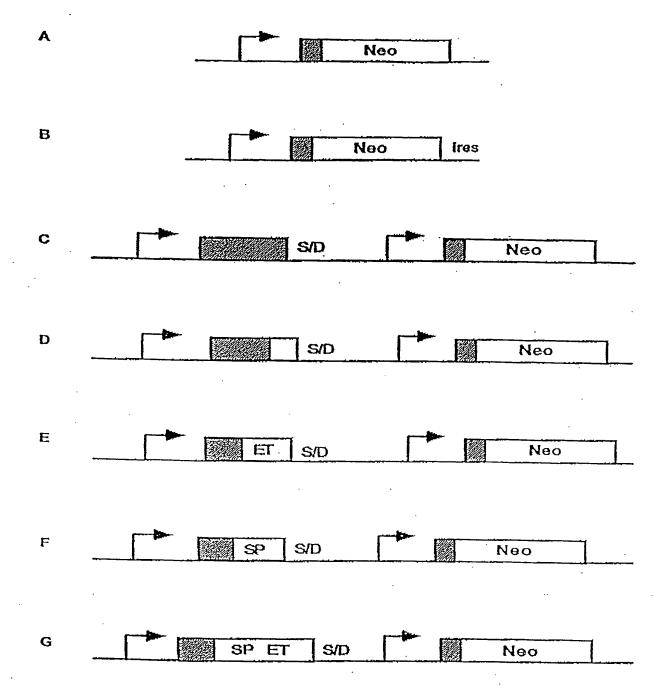


Figure 17

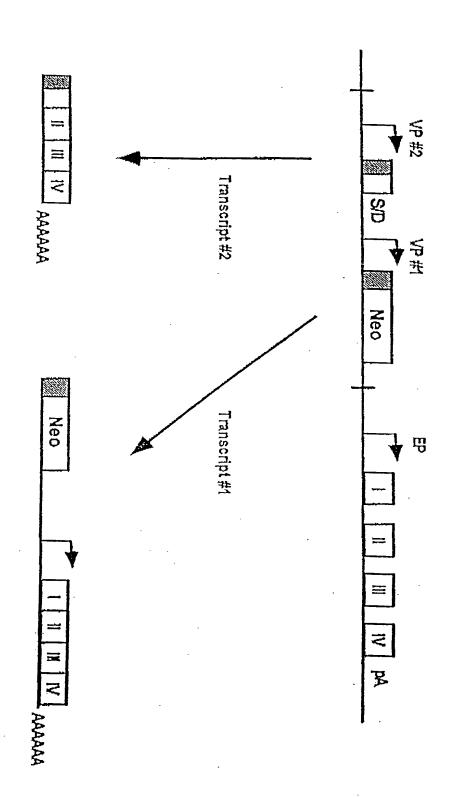


Figure 18



Figure 20A

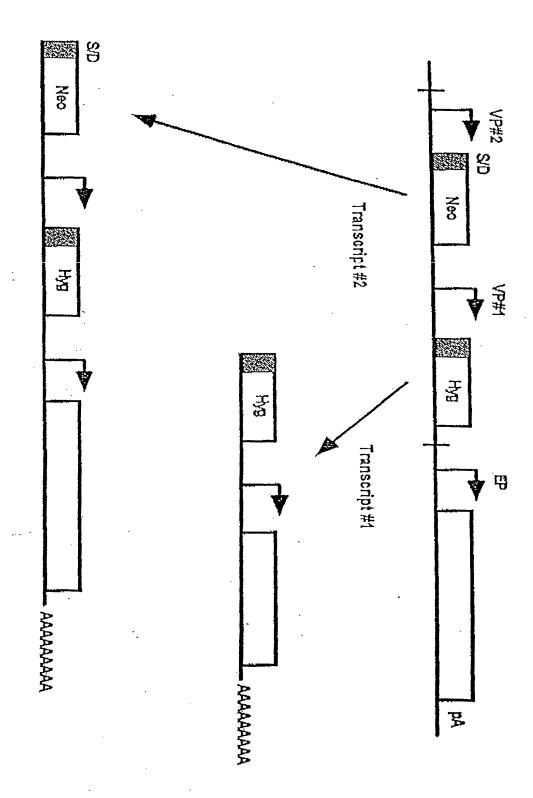


Figure 20B

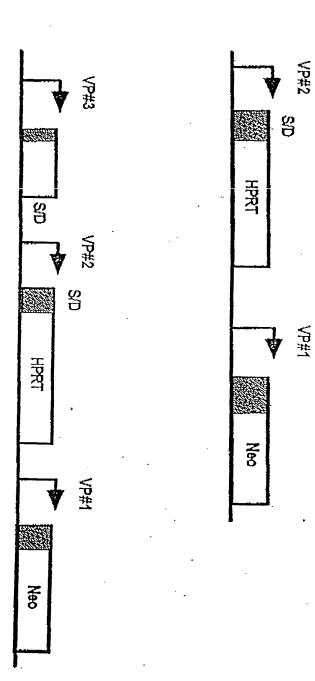


Figure 21

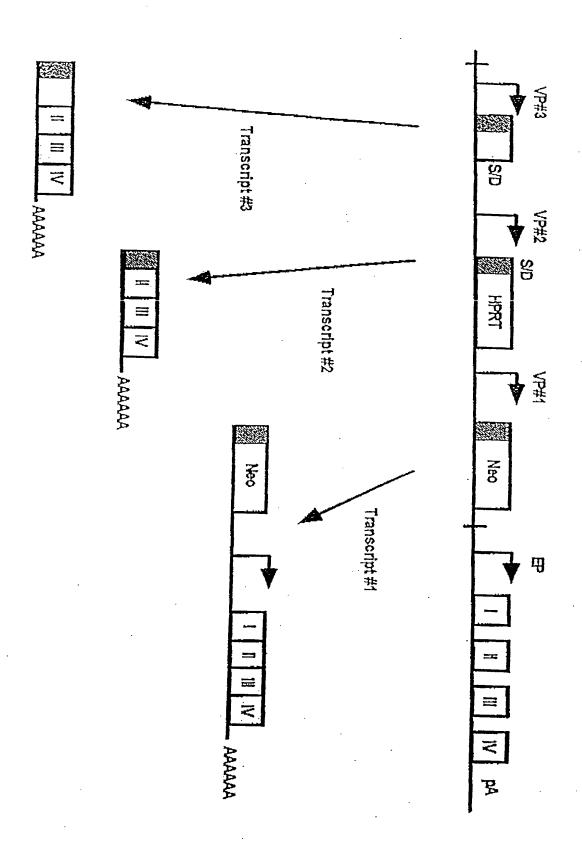
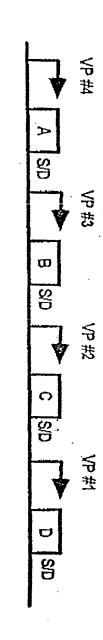


Figure 22





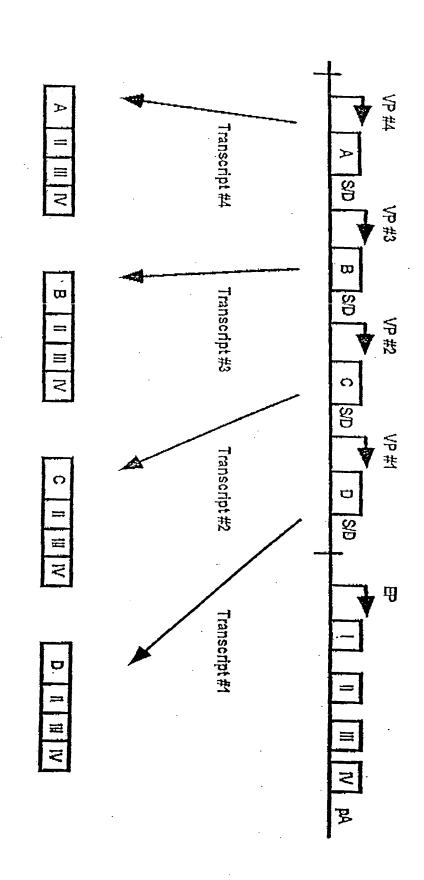
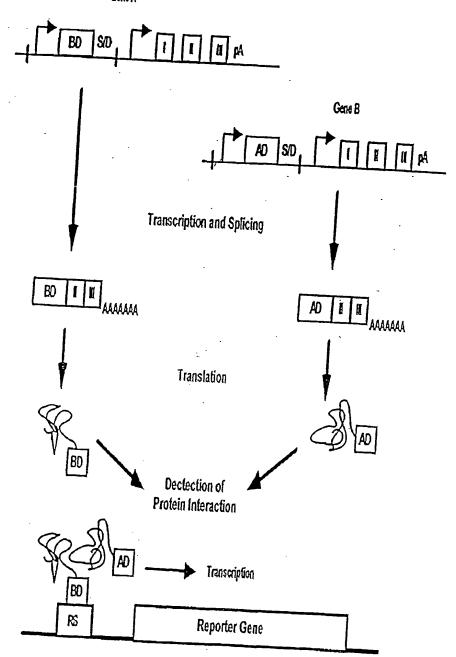


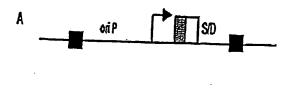
Figure 24

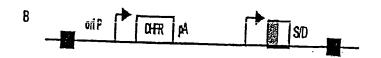
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<b>E</b>	DNA Binding Domain S/D Neo
C.	Activation Domain S/D
<b>D</b>	Activation Domain S/D Neo

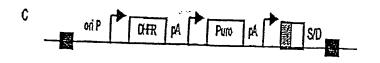
FIGURE 25



Fault 26







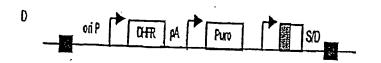
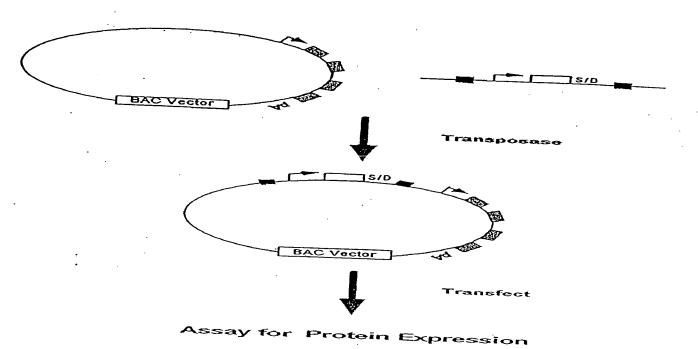




FIGURE 27



or Recover Vector Tagged Transcripts

Flaure 28

CACCTAAATTGTAAGCGTTAATATTTTGTTAAAATTCGCGTTAAATTTTTGT TAAATCAGCTCATTTTTTAACCAATAGGCCGAAATCGGCAAAATCCCTTAT AAATCAAAAGAATAGACCGAGATAGGGTTGAGTGTTGCTTCCAGTTTGGAA CAAGAGTCCACTATTAAAGAACGTGGACTCCAACGTCAAAGGGCGAAAAA CCGTCTATCAGGGCGATGGCCCACTACGTGAACCATCACCCTAATCAAGTT TTTTGGGGTCGAGGTGCCGTAAAGCACTAAATCGGAACCCTAAAGGGAGC CCCCGATTTAGAGCTTGACGGGGAAAGCCGGCGAACGTGGCGAGAAAGGA AGGGAAGAAAGCGAAAGGAGCGGGCGCTAGGGCGCTGGCAAGTGTAGCG GTCACGCTGCGCGTAACCACACACCCGCCGCGCTTAATGCGCCGCTACAG GGCGCGTCCCATTCGCCATTCAGGCTGCGCAACTGTTGGGAAGGGCGATC GGTGCGGGCCTCTTCGCTATTACGCCAGCTGGCGAAAGGGGGATGTGCTG CAAGGCGATTAAGTTGGGTAACGCCAGGGTTTTCCCAGTCACGACGTTGTA AAACGACGGCCAGTGAATTGTAATACGACTCACTATAGGGCGAATTGGGT ACaattcaattcgtcgacctcgaaattctaccgggtaggggaggcgcttttcccaaggcagtctggagcatgcgctttag cagcccgctgggcacttggcgctacacaagtggcctctggcctcgcacacattccacatccaccggtaggcgccaacc ggetccgttctttggtggcccttcgcgccaccttctactcctccctagtcaggaagttcccccccgccccgcanctcgcg tegtgeaggacgtgacaaatggaaatagcacgtetcactagtetegtgeagatggacaagcacegetgagcaatggage gggtaggcctttggggcagcggccaatagcagctttgctccttcgctttctgggctcagaggctggnaaggggtgggtcc gctgaagcttaccatgaccgagtacaagcccacggtgcgcctcgccaccgggacgacgtcccccggggccgtacgcac cctcgccgccgcttcgccgactaccccgccacgcgccacaccgtcgacccggaccgccacatcgagcgggtcaccgagetgeaagaaetetteeteaegegegtegggetegaeateggeaaggtgtgggtegeggaegaeggegeegeggtgge ggtctggaccacgccggagagcgtcgaagcgggggggggtgttcgccgagatcggcccgcgcatggccgagttgagcg gttcccggctggccgcgcagcaacagatggaaggcctcctggcgccgcaccgggcccaaggagcccgcgtggttcctt ggcccaccgtcgggcgtcttcgcccgaccaccagggcaagggtctggcaagcgccgtcgtgctccccggagtggagg caccg t caccg acg tcg agg tgcccg aagg accgcg cacctg g tgcatg acccg caagcccg g tgcctg acgcccc acctg tgcatg acccg caccgc acctg g tgcatg acccg acctg acctgcgcccacgacccgacgaccgaacgaaaggagcgacgaccccatgcatcgatggcactgggcaggtaagtatca aggttagcGATCTTCAATATTGGCCATTAGCCATATTATTCATTGGTTATATAGC ATAAATCAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCATAAT ATGTACATTTATATTGGCTCATGTCCAATATGACCGCCATGTTGGCATTGA TTATTGACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGC CCATATATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGC TGACCGCCAACGACCCCGCCCATTGACGTCAATAATGACGTATGTTCCC ATAGTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTA CGGTAAACTGCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTCCG CCCCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAG TACATGACCTTACGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTC ATCGCTATTACCATGGTGATGCGGTTTTGGCAGTACACCAATGGGCGTGGA TAGCGGTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGTCAAT GGGAGTTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAAC AACTGCGATCGCCCGCCCGTTGACGCAAATGGGCGGTAGGCGTGTACGG TGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCACTAGA TCTGACACAACAGTCTCGAACTTAAGCTGCAGTGACTCTCTtaattaaccaccgctac GAGAGCCGAAACAAGCGCTCATGAGCCCGAAGTGGCGAGCCCGATCTTCC CCATCGGTGATGTCGGCGATATAGGCGCCAGCAACCGCACCTGTGGCGCC

FIGURE 29A

GGTGATGCCGGCCACGATGCGTCCGGCGTAGAGGATCCACAGGACGGGTG TGGTCGCCATGATCGCGTAGTCGATAGTGGCTCCAAGTAGCGAAGCGAGC AGGACTGGGCGGCCAAAGCGGTCGGACAGTGCTCCGAGAACGGGTGC GCATAGAAATTGCATCAACGCATATAGCGCTAGATCCTTGCTAGAGTCGAG GCCGCCACCGCGTGGAGCTCCAGCTTTTGTTCCCTTTAGTGAGGGTTAAT TTCGAGCTTGGCGTAATCATGGTCATAGCTGTTTCCTGTGTGAAATTGTTA TCCGCTCACAATTCCACACAACATACGAGCCGGAAGCATAAAGTGTAAAG CCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCAC TGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCG GCCAACGCGCGGGAGAGGCGGTTTGCGTATTGGGCGCTCTTCCGCTTCCT CGCTCACTGACTCGCTGCGCTCGGTCGTTCGGCTGCGGCGAGCGGTATCAG CTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCA GGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAA AGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATC ACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAA AGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCG ACCCTGCCGCTTACCGGATACCTGTCCGCCTTCTCCCTTCGGGAAGCGTG GCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTT CGCTCCAAGCTGGGCTGTGCACGAACCCCCGTTCAGCCCGACCGCTGC GCCTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTA TCGCCACTGCCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGT AGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAG <sup>,</sup>AAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAA AAGAGTTGGTAGCTCTTGATCCGGCAAACAACCACCGCTGGTAGCGGTG GTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAG AAGATCCTTTGATCTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACT CACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGA TCCTTTTAAATTAAAAATGAAGTTTTAAATCAATCTAAAGTATATGAGT AAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTCAG CGATCTGTCTATTCGTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGAT AACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACC GTCTATTAATTGTTGCCGGGAAGCTAGAGTAGTAGTTCGCCAGTTAATAG TTTGCGCAACGTTGTTGCCATTGCTACAGGCATCGTGGTGTCACGCTCGTC GTTTGGTATGGCTTCATTCAGCTCCGGTTCCCAACGATCAAGGCGAGTTAC ATGATCCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCCTCCGAT CGTTGTCAGAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGC ACTGCATAATTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTCTGTGACT GGTGAGTACTCAACCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGAG TTGCTCTTGCCCGGCGTCAATACGGGATAATACCGCGCCACATAGCAGAAC TTTAAAAGTGCTCATCATTGGAAAACGTTCTTCGGGGCGAAAACTCTCAAG GATCTTACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGCACCCAA CTGATCTTCAGCATCTTTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAAC AGGAAGGCAAAATGCCGCAAAAAAGGGAATAAGGGCGACACGGAAATGT TGAATACTCATACTCTTCCTTTTTCAATATTATTGAAGCATTTATCAGGGTT ATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGAAAAAATAAACAAA TAGGGGTTCCGCGCACATTTCCCCGAAAAGTGC

Figure 29B

GATCTTCAATATTGGCCATTAGCCATATTATTCATTGGTTATATAGCATAAA TCAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCATAATATGTA CATTTATATTGGCTCATGTCCAATATGACCGCCATGTTGGCATTGATTATTG ACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATAT ATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCG CCCAACGACCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTA ACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAA ACTGCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTCCGCCCCT ATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATG ACCTTACGGGACTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCT ATTACCATGGTGATGCGGTTTTGGCAGTACACCAATGGGCGTGGATAGCG GTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGTCAATGGGAG TTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTG CGATCGCCCGCCCGTTGACGCAAATGGCCGTAGGCGTGTACGGTGGGA GGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCACTGAATTCTG ACGACCTACTGATTAACGGCCATAGAGGCCTCCTGCAGAACTGTCTTAGTG ACAACTATCGATTTCCACACATTATACGAGCCGATGTTAATTGTCAACAGC TCATGCATGACGTCCCGGGAGCAGACAAGCCCGACCATGGCTCGAGTAAT ACGACTCACTATAGGGCGACAGGTGAGTACTCGCTACCTTAAggcctatctggccg tttaaacagatgtgtataagagacagctctttaaGGTAGCCTGTCTCTTATACACATCTagatccttg ctag agtegac caat to teat gttt gac agettat catege agatect gag ctt gtat ggt geact cte agtae aat ct get ctt ag get geact cte agtae aat ct get ctt gag get gegen gegen generalle get gegen gegencaacaaggcaaggcttgaccgacaattgcatgaagaatctgcttagggttaggcgttttgcgctgcttcgcgatgtacggg ccagatatacgcgtatctgaggggactagggtgtgtttaggcgcccagcggggcttcggttgtacgcggttaggagtccc ctcaggatatagtagtttcgcttttgcatagggagggggaaatgtagtcttatgcaatacacttgtagtcttgcaacatggtaa cgatgagttagcaacatgccttacaaggagagaaaaagcaccgtgcatgccgattggtggaagtaaggtggtacgatcgt gccttattaggaaggcaacagacaggtctgacatggattggacgaaccactgaattccgcattgcagagataattgtattta agtgcctagctcgatacaataaacgccatttgaccattcaccacattggtgtgcacctccaagctgggtaccagctgctagc agaaggtaaacagaatctggtgattatgggtaagaagacctggttctccattcctgagaagaatcgacctttaaagggtaga attaatttagtteteageagagaacteaaggaacetecacaaggageteattttettteeagaagtetagatgatgeettaaaa cttactgaacaaccagaattagcaaataaagtagacatggtctggatagttggtggcagttctgtttataaggaagccatga atcacccaggccatcttaaactatttgtgacaaggatcatgcaagactttgaaagtgacacgttttttccagaaattgatttgg atatgagaagaatgTTAATTAAgggcaccaataactgccttaaaaaaattacgcccggcctgccactcatcgcagt act gtt gta att catta ag cattct gccga cat gga ag ccat cac ag ac gg cat ga acct ga at cgc cag cg gcat cac acct ga at cgc cat ga acct ga at cgc cag cgc gcat cac acct ga at cgc cat ga acct ga acct ga at cgc cat ga acct ga at cgc cat ga acct ga acct ga at cgc cat ga acct ga acctaaactggtgaaactcacccagggattggctgagacgaaaaacatattctcaataaaccctttagggaaataggccaggtttt caccgtaacacgccacatcttgcgaatatatgtgtagaaactgccggaaatcgtcgtggtattcactccagagcgatgaaa acgttt cagtttgct catggaaaacggtgtaacaagggtgaacactatcccatatcaccagctcaccgtctttcattgccataaccagtctaccagtcttcattgccataaccagtctaccagtctcaccgtctttcattgccataaccagtctaccagtcaccagtcaccagtctaccagtctaccagtcaccaccagtcacccggaattccggatgagcattcatcaggcgggcaagaatgtgaataaaggccggataaaacttgtgcttattttctttacggt acgatgccattgggatatatcaacggtggtatatccagtgatttttttctccattttagcttccttagctcctgaaaatctcgatauccattgggatatatcaacggtggtatatccagtgatttttttctccattttagcttccttagctcctgaaaatctcgatauccagtgatttttttctccattttagcttccttagctccttgaaaatctcgatauccagtgattttttttctccattttagcttccttagctccttgaaaatctcgatauccagtgattttttttctccattttagcttccttagctccttgaaaaatctcgatauccagtgatttttttctccattttagcttccttagctccttagctccttgaaaaatctcgatauccagtgatttttttctccattttagcttccttagctccttagctccttgaaaaatctccgatauccagtgatttttttttctccattttagcttccttagctccttgaaaaatctccgatauccagtgattttttttctccattttagcttccttagctccttgaaaaatctccgatauccagtgattttttttctccattttagcttccttagctccttgaaaaatctccgatauccagtgatauccagtgattttttttctccattttagcttccttagctccttgaaaaatctccgatauccagtact caa aa aa ta c g c c g g ta g t g a t c t t a t g t g a a g t t g a a c t c t a c g t g c g a t c a a c g t c t a t t t c g t g c g a t c a a c g t c t a t t t c g t g c g a t c a a c g t c t a t t t c g t g c g a t c a a c g t c t a t t t c g t g c g a t c a a c g t c t a t t t c g t g c g a t c a a c g t c t a t t t c g t g c g a t c a a c g t c t a t t t c g t g c g a t c a a c g t c t a t t t c g t g c g a t c a a c g t c t a t t t c g t g c g a t c a a c g t c t a t t t c g t g c g a t c a a c g t c t a t t t t c g t g c g a t c a a c g t c t a t t t t c g t g c g a t c a a c g t c t a t t t t c g t g c g a t c a a c g t c t a t t t t c g t g c g a t c a a c g t c t a t t t t c g t g c g a t c a a c g t c t a t t t t c g t g c g a t c a a c g t c t a t t t t c g t g c g a t c a a c g t c t a t t t t c g t g c g a t c a a c g t c t a t t t t c g t g c g a t c a a c g t c t a t t t t c g t g c g a t c a a c g t c t a t t t t c g t g c g a t c a a c g t c t a t t t t c g t g c g a t c a a c g t c t a c g t c a c g t c a c g t c a c g c g t c a a c g t c a c g c g a c g a c g c g a c gccaaaTTAATTAAGGCGCCCcctcctggctaggagtcacgtagaaaggactaccgacgaaggaactt gggtcgccggtgtgttcgtatatggaggtagtaagacctccctttacaacctaaggcgaggaactgcccttgctattccaca atgtcgtcttacaccattgagtcgtctcccctttggaatggcccttggacccggcccacaacctggcccgctaagggagtc 

F19UE 30A

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FIGURE 30B

TTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAGAA GATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCA CGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATC CTTTTATCGGTGTGAAATACCGCACAGATGCGTAAGGAGAAAATACCGCAT CAGGAAATTGTAAGCGTTAATAATTCAGAAGAACTCGTCAAGAAGGCGAT AGAAGGCGATGCGCTGCGAATCGGGAGCGGCGATACCGTAAAGCACGAGG AAGCGGTCAGCCCATTCGCCGCCAAGCTCTTCAGCAATATCACGGGTAGCC AACGCTATGTCCTGATAGCGGTCCGCCACACCCAGCCGGCCACAGTCGATG AATCCAGAAAAGCGGCCATTTTCCACCATGATATTCGGCAAGCAGGCATCG CCATGGGTCACGACGAGATCCTCGCCGTCGGGCATGCTCGCCTTGAGCCTG GCGAACAGTTCGGCTGGCGCGAGCCCCTGATGCTCTTCGTCCAGATCATCC TTCGCTTGGTGGTCGAATGGGCAGGTAGCCGGATCAAGCGTATGCAGCCG CCGCATTGCATCAGCCATGATGGATACTTTCTCGGCAGGAGCAAGGTGAG ATGACAGGAGATCCTGCCCGGCACTTCGCCCAATAGCAGCCAGTCCCTTC CCGCTTCAGTGACAACGTCGAGCACAGCTGCGCAAGGAACGCCCGTCGTG GACAGGTCGGTCTTGACAAAAAGAACCGGGCGCCCCTGCGCTGACAGCCG GAACACGGCGCATCAGAGCAGCCGATTGTCTGTTGTGCCCAGTCATAGCC GAATAGCCTCTCCACCCAAGCGGCCGGAGAACCTGCGTGCAATCCATCTTG TTCAATCATGCGAAACGATCCTCATCCTGTCTCTTGATCAGAGCTTGATCC CCTGCGCCATCAGATCCTTGGCGGCGAGAAAGCCATCCAGTTTACTTTGCA **GGGCTTGTCAACCTTACCAGATAAAAGTGCTCATCATTGGAAAACattcaattcgt** act tggcgctaca caag tggcctctggcctcgcaca cattccacag taggcgccaaccggctccgttctttggtggccccttcgcgccaccttctactcctccctagtcaggaagttccccccgccccgcanctcgcgtcgtgcaggacgtg acaaatggaaatagcacgtctcactagtctcgtgcagatggacaagcaccgctgagcaatggagcgggtaggcctttggg gcagcggccaatagcagctttgctcettcgctttctgggctcagaggctggnaaggggtgggtccgggggcgggctcag gggcgggctcaggggcggggcgggcccgaaggtcctccggaggcccggcattctgcacgcttcaaaagcgcacgt cegagtacaageceaeggtgegeetegecaeeeggaegaegteeeegggeegtaegeaeeetegeegeeggtteg cegactacecegecaegegecaeacegtegaeceggaecgecaeategagegggteaecgagetgeaagaaetetteet cacgcgcgtcgggctcgacatcggcaaggtgtgggtcgcggacgacggcgcgcgggtggcggtctggaccacgccg gagagcgtcgaagcgggggggggtgttcgccgagatcggcccgcgcatggccgagttgagcggttcccggctggccgc gcagcaacagatggaaggcctcctggcgccgcaccgggcccaaggagcccgcgtggttccttggcccaccgtcgggc gtcttcgcccgaccaccagggcaagggtctggcaagcgccgtcgtgctccccggagtggaggcggccgagcgcgcg gggtgcccgccttcctggagacctccgcgccccgcaacctcccttctacgagcggctcggcttcaccgtcaccgccgac GGGGAGCCTGGGGACTTTCCACACCCTAACTGACACACATTCCACAGCTGG TTCTTTCCGCCTCAGAAGGTACACAGGCGAAATTGTAAGCGTTAATATTTT GTTAAAATTCGCGTTAAATTTTTGTTAAATCAGCTCATTTTTTAACCAATAG GCCGAAATCGGCAAAATCCCTTATAAATCAAAAGAATAGACCGAGATAGG GTTGAGTGTTGTTCCAGTTTGGAACAAGAGTCCACTATTAAAGAACGTGGA CTCCAACGTCAAAGGGCGAAAAACCGTCTATCAGGGCGATGGCCCAC



GATCTTCAATATTGGCCATTAGCCATATTATTCATTGGTTATATAGCATAAA TCAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCATAATATGTA CATTTATATTGGCTCATGTCCAATATGACCGCCATGTTGGCATTGATTATTG ACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATAT ATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCG CCCACGACCCCCCCCCATTGACGTCAATAATGACGTATGTTCCCATAGTA ACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAA ACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTCCGCCCCCT ATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATG ACCTTACGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCT ATTACCATGGTGATGCGGTTTTGGCAGTACACCAATGGGCGTGGATAGCG GTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGTCAATGGGAG TTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTG CGATCGCCCGCCCGTTGACGCAAATGGGCGTAGGCGTGTACGGTGGGA GGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCACTGAATTCTG ACGACCTACTGATTAACGGCCATAGAGGCCTCCTGCAGAACTGTCTTAGTG ACAACTATCGATTTCCACACATTATACGAGCCGATGTTAATTGTCAACAGC TCATGCATGACGTCCCGGGAGCAGACAAGCCCGACCATGGCTCGAGTAAT ACGACTCACTATAGGGCGACAGGTGAGTACTCGCTACCTTAAggcctatctggccg tttaaacagatgtgtataagagacagctctcttaaGGTAGCCTGTCTCTTATACACATCTagatccttgcaacaaggcaaggcttgaccgacaattgcatgaagaatctgcttagggttaggcgttttgcgctgcttcgcgatgtacggg ccaga tatacgcg tatctg aggggact agggt to tagg tatct agg tatct aggcgatgagttagcaacatgccttacaaggagagaaaaagcaccgtgcatgccgattggtggaagtaaggtggtacgatcgt gccttattaggaaggcaacagacaggtctgacatggattggacgaaccactgaattccgcattgcagagataattgtattta agtgctagctcgatacaataaacgccatttgaccattcaccacattggtgtgcacctccaagctgggtaccagctgctagc ctcgagacgegtgatttccttcgaagettgtcatggttggttcgctaaactgcatcgtcgctgtgtcccagaacatgggcatcgg caa gaa cggggacctgccctggccaccgctcaggaatgaattcagatatttccagagaatgaccacaacctcttcagtaga agg ta aa caga at ctgg tgattat gg gtaaga aga acctgg ttctcc attcctg aga aga at cgacctt ta aa gg gtagaaga acctgg ttctcc attcctg aga aga acctgg to the contract of the contatta att tagt tct cag cag aga act caag gaa act caca agg agct catt tt ctt tcc aga agt ctag at gat gc ctta aa act cacag gag consideration of the consideraticttactgaacaaccagaattagcaaataaagtagacatggtctggatagttggtggcagttctgtttataaggaagccatga atcacccaggccatcttaaactatttgtgacaaggatcatgcaagactttgaaagtgacacgttttttccagaaattgatttgg agaaatataaacttctgccagaatacccaggtgttctctctgatgtccaggaggagaaaggcattaagtacaaatttgaagt atatgagaagaatgTTAATTAAgggcaccaataactgccttaaaaaaaattacgccccgccctgccactcatcgcagt actgttgtaattcattaagcattctgccgacatggaagccatcacagacggcatgatgaacctgaatcgccagcggcatca gcaccttgtcgccttgcgtataatatttgcccatggtgaaaacgggggcgaagaagttgtccatattggccacgtttaaatca aaactggtgaaactcacccagggattggctgagacgaaaaacatattctcaataaaccctttagggaaataggccaggtttt caccgtaacacgccacatcttgcgaatatatgtgtagaaactgccggaaatcgtcgtggtattcactccagagcgatgaaa acgtttcagtttgctcatggaaaacggtgtaacaagggtgaacactatcccatatcaccagctcaccgtctttcattgccata cggaattccggatgagcattcatcaggcgggcaagaatgtgaataaaggccggataaaacttgtgcttatttttctttacggt acgatgccattgggatatatcaacggtggtatatccagtgatttttttctccattttagcttccttagctcctgaaaatctcgata acteaaaaaataegeeeggtagtgatettattteattatggtgaaagttggaacetettaegtgeegateaaegteteatttteg ccaaaTTAATTAAGGCGCGCCgctctcctggctaggagtcacgtaggaaaggactaccgacgaaggaactt gggtcgccggtgtgttcgtatatggaggtagtaagacctcccfttacaacctaaggcgaggaactgcccttgctattccaca atgtcgtcttacaccattgagtcgtctcccctttggaatggcccctggacccggcccacaacctggcccgctaagggagtc cattgtctgttatttcatggtctttttacaaactcatatatttgctgaggttttgaaggatgcgattaaggaccttgttatgacaa-



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TTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAGAA GATCCTTTGATCTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCA CGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATC CTTTTATCGGTGTGAAATACCGCACAGATGCGTAAGGAGAAAATACCGCAT CAGGAAATTGTAAGCGTTAATAATTCAGAAGAACTCGTCAAGAAGGCGAT AGAAGGCGATGCGCTGCGAATCGGGAGCGGCGATACCGTAAAGCACGAGG AAGCGGTCAGCCCATTCGCCGCCAAGCTCTTCAGCAATATCACGGGTAGCC AACGCTATGTCCTGATAGCGGTCCGCCACACCCAGCCGGCCACAGTCGATG AATCCAGAAAAGCGGCCATTTTCCACCATGATATTCGGCAAGCAGGCATCG CCATGGGTCACGACGAGATCCTCGCCGTCGGGCATGCTCGCCTTGAGCCTG GCGAACAGTTCGGCTGGCGCGAGCCCCTGATGCTCTTCGTCCAGATCATCC TTCGCTTGGTGGTCGAATGGGCAGGTAGCCGGATCAAGCGTATGCAGCCG CCGCATTGCATCAGCCATGATGGATACTTTCTCGGCAGGAGCAAGGTGAG ATGACAGGAGATCCTGCCCGGCACTTCGCCCAATAGCAGCCAGTCCCTTC CCGCTTCAGTGACAACGTCGAGCACAGCTGCGCAAGGAACGCCCGTCGTG GACAGGTCGGTCTTGACAAAAGAACCGGGCGCCCCTGCGCTGACAGCCG GAACACGGCGCATCAGAGCAGCCGATTGTCTGTTGTGCCCAGTCATAGCC GAATAGCCTCTCCACCCAAGCGGCCGGAGAACCTGCGTGCAATCCATCTTG TTCAATCATGCGAAACGATCCTCATCCTGTCTCTTGATCAGAGCTTGATCC CCTGCGCCATCAGATCCTTGGCGGCGAGAAAGCCATCCAGTTTACTTTGCA ·GGGCTTGTCAACCTTACCAGATAAAAGTGCTCATCATTGGAAAAcattcaattcgt cgacctcgaaattctaccgggtaggggaggcgttttcccaaggcagtctggagcatgcgctttagcagccccgctgggc acttggcgctacacaagtggcctctggcctcgcacacattccacactggtaggcgccaaccggctccgttctttggt ggccccttcgcgccaccttctactcctcccctagtcaggaagttccccccgccccgcanctcgcgtcgtgcaggacgtg acaaatggaaatagcacgtctcactagtctcgtgcagatggacaagcaccgctgagcaatggagcgggtaggcctttggg gcagcggccaatagcagctttgctccttcgctttctgggctcagaggctggnaaggggtgggtccgggggcgggctcag gggcgggctcaggggcggggcgggcccgaaggtcctccggaggcccggcattctgcacgcttcaaaagcgcacgt ccgagtacaagcccacggtgcgcctcgccacccgcgacgacgtcccccgggccgtacgcaccctcgccgccgcgttcg ccgactaccccgccacgcgccacaccgtcgacccggaccgccacatcgagcgggtcaccgagctgcaagaactcttcct cacgcgcgtcgggctcgacatcggcaaggtgtgggtcgcggacgacggcgcgcgggtggcggtctggaccacgccg gagagegtegaagegggggggggtgttegeegagateggeeegegatggeegagttgageggtteeeggetggeege gtcttcgcccgaccaccagggcaagggtctggcaagcgccgtcgtgctccccggagtggaggcggccgagcgccg gggtgcccgccttcctggagacctccgcgccccgcaacctccccttctacgagcggctcggcttcaccgtcaccgccgac gegecegacegaaaggagegeacgaceceatgeategatggeactgggeaggtaagtateaaggttageGGCCGC GGGGAGCCTGGGGACTTTCCACACCCTAACTGACACACATTCCACAGCTGG TTCTTTCCGCCTCAGAAGGTACACAGGCGAAATTGTAAGCGTTAATATTTT GTTAAAATTCGCGTTAAATTTTTGTTAAATCAGCTCATTTTTTAACCAATAG GCCGAAATCGGCAAAATCCCTTATAAATCAAAAGAATAGACCGAGATAGG GTTGAGTGTTGTTCCAGTTTGGAACAAGAGTCCACTATTAAAGAACGTGGA CTCCAACGTCAAAGGGCGAAAAACCGTCTATCAGGGCGATGGCCCAC

FIGURE 31C

GATCTTCAATATTGGCCATTAGCCATATTATTCATTGGTTATATAGCATAAA TCAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCATAATATGTA CATTTATATTGGCTCATGTCCAATATGACCGCCATGTTGGCATTGATTATTG ACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATAT ATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCG CCCAACGACCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTA ACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAA ACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTCCGCCCCCT ATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATG ACCTTACGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCT ATTACCATGGTGATGCGGTTTTGGCAGTACACCAATGGGCGTGGATAGCG GTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGTCAATGGGAG TTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTG CGATCGCCCGCCCGTTGACGCAAATGGGCGTAGGCGTGTACGGTGGGA GGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCACTGAATTCTG ACGACCTACTGATTAACGGCCAGATCTAAGCTAGCGCCGCCACCATGGGCC CTAAAAAGAAGCGTAAAGTCGCCCCCCGACCGATGTCAGCCTGGGGGAC GAGCTCCACTTAGACGGCGAGGACGTGGCGATGGCGATGCCGACGCGCT AGACGATTTCGATCTGGACATGTTGGGGGACGGGGATTCCCCGGGGCCGG GATTTACCCCCACGACTCCGCCCCCTACGCCCTCTGGATATGGCCGACT TCGAGTTTGAGCAGATGTTTACCGATGCCCTTGGAATTGACGAGTACGGTG GGGAATTCAGGTGAGTACTCGCTACCTTAAggcctatctggccgtttaaacagatgtgtataag agacagctctcttaaGGTAGCCTGTCTCTTATACACATCTagatccttgctagagtcgaccaattctc agtatctgctccctgcttgtgtgtgtggaggtcgctgagtagtgcgcgagcaaaatttaagctacaacaaggcaaggcttgac ggggactagggtgttttaggcgcccagcggggcttcggttgtacgcggttaggagtcccctcaggatatagtagtttcgcttttgcatagggaggggaaatgtagtcttatgcaatacacttgtagtcttgcaacatggtaacgatgagttagcaacatgcc ttacaaggagagaaaaagcaccgtgcatgccgattggtggaagtaaggtggtacgatcgtgccttattaggaaggcaaca gacaggtctgacatggattggacgaaccactgaattccgcattgcagagataattgtatttaagtgcctagctcgatacaata cgaagcttgtcatggttggttcgctaaactgcatcgtcgctgtgtcccagaacatgggcatcggcaagaacggggacctgc cctggccaccgctcaggaatgaattcagatatttccagagaatgaccacaacctcttcagtagaaggtaaacagaatctggt aactcaaggaacctccacaaggagctcattttctttccagaagtctagatgatgccttaaaacttactgaacaaccagaatta g caa at a a a g t a g cat g a t a g t t a g t a g t a g t a g cat g a a t cac cat g a t cat g a t a g cat g a g cat g a t a g cat g a t a g cat g a t a g cat g atatttgtgacaaggatcatgcaagactttgaaagtgacacgtttttccagaaattgatttggagaaatataaacttctgccag aatacccaggtgttctctctgatgtccaggaggagaaaggcattaagtacaaatttgaagtatatgagaagaatgTTAA atatttgcccatggtgaaaacgggggcgaagaagttgtccatattggccacgtttaaatcaaaactggtgaaactcacccag ggattggctgagacgaaaaacatattctcaataaaccctttagggaaataggccaggttttcaccgtaacacgccacatctt gcgaatatatgtgtagaaactgccggaaatcgtcgtggtattcactccagagcgatgaaaacgtttcagtttgctcatggaa aacggtgtaacaagggtgaacactatcccatatcaccagctcaccgtctttcattgccatacggaattccggatgagcattc at caggegg caagaat gt gaataa aggeeggataa aact t gt get tatt tt tett tae gg tett taaa aa ggeegtaat at ceel and the second seconacggtggtatatccagtgatttttttctccattttagcttccttagctcctgaaaaatctcgataactcaaaaaatacgcccggtag tgatcttatttcattatggtgaaagttggaacctcttacgtgccgatcaacgtctcattttcgccaaaTTAATTAAGGCGCGCC g ctctcctggctaggagtcacgtagaaaggactaccgacgaaggaacttgggtcgccggtgtgttcgtat-

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FIGURE 32B

TCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAGTATTTGGTA TCTGCGCTCTGCAGCCAGTTACCTTCGGAAAAAGAGTTGGTAGCTCTT AGCAGATTACGCGCAGAAAAAAGGATCTCAAGAAGATCCTTTGATCTTTT CTACGGGGTCTGACGCTCAGTGGAACGAAAACTCACGTTAAGGGATTTTG GTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCTTTTATCGGTGTGA AATACCGCACAGATGCGTAAGGAGAAAATACCGCATCAGGAAATTGTAAG CGTTAATAATTCAGAAGAACTCGTCAAGAAGGCGATAGAAGGCGATGCGC TGCGAATCGGGAGCGCGATACCGTAAAGCACGAGGAAGCGGTCAGCCCA TTCGCCGCCAAGCTCTTCAGCAATATCACGGGTAGCCAACGCTATGTCCTG ATAGCGGTCCGCCACACCCAGCCGGCCACAGTCGATGAATCCAGAAAAGC GGCCATTTTCCACCATGATATTCGGCAAGCAGGCATCGCCATGGGTCACGA CGAGATCCTCGCCGTCGGGCATGCTCGCCTTGAGCCTGGCGAACAGTTCGG CTGGCGCGAGCCCCTGATGCTCTTCGTCCAGATCATCCTGATCGACAAGAC CGGCTTCCATCCGAGTACGTGCTCGCTCGATGCGATGTTTCGCTTGGTGGT CGAATGGGCAGGTAGCCGGATCAAGCGTATGCAGCCGCCGCATTGCATCA GCCATGATGGATACTTTCTCGGCAGGAGCAAGGTGAGATGACAGGAGATC CTGCCCGGCACTTCGCCCAATAGCAGCCAGTCCCTTCCCGCTTCAGTGAC TGACAAAAGAACCGGGCGCCCCTGCGCTGACAGCCGGAACACGGCGGCA TCAGAGCAGCCGATTGTCTGTTGTGCCCAGTCATAGCCGAATAGCCTCTCC ACCCAAGCGGCCGGAGAACCTGCGTGCAATCCATCTTGTTCAATCATGCGA AACGATCCTCATCCTGTCTCTTGATCAGAGCTTGATCCCCTGCGCCATCAG ATCCTTGGCGGCGAGAAAGCCATCCAGTTTACTTTGCAGGGCTTGTCAACC TTACCAGATAAAAGTGCTCATCATTGGAAAAcattcaattcgtcgacctcgaaattctaccggg ctctggcctcgcacacattccacatccaccggtaggcgccaaccggctccgttctttggtggccccttcgcgccaccttctagctccttcgctttctgggctcagaggctggnaaggggtgggtccggggctcaggggcgggctcaggggcggggegggegeeegaaggteeteeggaggeeeggeattetgeaegetteaaaagegeaegtetgeegegetgtteteetette ct catc to cggg cott to gac ctg catcat ctag at ctg ag ctg a ag ctt acc at gac cgag tac aag cc cac ggtgegectegecacegegaegaegteeceegggeegtaegeacetegeegeggttegeegaetaeeeegeeaegeg ccacaccgtcgacccggaccgccacatcgagcgggtcaccgagctgcaagaactcttcctcacgcgcgtcgggctcgac atcggcaaggtgtgggtcgcggacgacggcgcggtgtggggtctggaccacgccggagagcgtcgaagcgggg cggtgttcgccgagatcggcccgcgcatggccgagttgagcggttcccggctggccgcgcagcaacagatggaaggcc tcctggcgccgcaccgggcccaaggagcccgcgtgttccttggcccaccgtcgggcgtcttcgcccgaccaccaggg caagggtctggcaagcgccgtcgtgctccccggagtggaggcggccgagcgcgcggggtgcccgccttcctggaga gegeacetggtgeatgaceegeaageeeggtgeetgacgeeegeeceaegaceegaagegeeegaaegaaaggageg cac gaccccat gcat cgat ggcat ggcat ggta ag tat caa ggt tag c GCCGCTAACCTGGTTGCTGACTTTCCACACCCTAACTGACACACATTCCACAGCTGGTTCTTTCCGCCTC AGAAGGTACACAGGCGAAATTGTAAGCGTTAATATTTTGTTAAAATTCGCG TTAAATTTTTGTTAAATCAGCTCATTTTTTAACCAATAGGCCGAAATCGGC AAAATCCCTTATAAATCAAAAGAATAGACCGAGATAGGGTTGAGTGTTGTT CCAGTTTGGAACAAGAGTCCACTATTAAAGAACGTGGACTCCAACGTCAAA GGGCGAAAAACCGTCTATCAGGGCGATGGCCCAC



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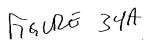
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FIGURE 33D

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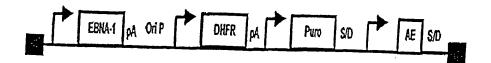


GATCTTCAATATTGGCCATTAGCCATATTATTCATTGGTTATATAGCATAAA TCAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCATAATATGTA CATTTATATTGGCTCATGTCCAATATGACCGCCATGTTGGCATTGATTATTG ACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATAT ATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCG CCCAACGACCCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTA ACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAA ACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTCCGCCCCCT ATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATG ACCTTACGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCT ATTACCATGGTGATGCGGTTTTGGCAGTACACCAATGGGCGTGGATAGCG GTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGTCAATGGGAG TTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTG CGATCGCCCGCCCGTTGACGCAAATGGGCGTAGGCGTGTACGGTGGGA GGTCTATATAAGCAGAGCTcgtttagtgaaccgtcagatcactgaattctgacgacctactgattaacggccatagaggcctcctgcagaactgtcttagtgacaactatCGATTTCCACACATTATACGAGCCGAT GTTAATTGTCAACAGCTCATGCATGACGTCCCGGGAGCAGACAAGCCCGacc atggctcgagTAATACGACTCACTATAGGGCGACAGGTGAGTACTCGCTACCTTAAGAGAGGCCTATCTGGCCAGTTAGCAGTCGAAGAAGAAGTTTAAGAGA GCCGAACAACCGCTCATGAGCCCGAAGTGGCGAGCCCGATCTTCCCCAT CGGTGATGTCGGCGATATAGGCGCCAGCAACCGCACCTGTGGCGCGGTG ATGCCGGCCACGATGCGTCCGGCGTAGAGGATCCACAGGACGGGTGTGGT <sup>,</sup>CGCCATGATCGCGTAGTCGATAGTGGCTCCAAGTAGCGAAGCGAGCAGGA CTGGGCGGCCAAAGCGGTCGGACAGTGCTCCGAGAACGGGTGCGCAT AGAAATTGCATCAACGCATATAGCGCTAGATCCTTGCTAGAGTCGAGATCT GTCGAGCCATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAG GCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCAC AAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAG ATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGAC CCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGC GCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTCG CTCCAAGCTGGGCTGTGCACGAACCCCCGTTCAGCCCGACCGCTGCGC CTTATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATC GCCACTGGCAGCAGCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAG GCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAA GGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAA GAGTTGGTAGCTCTTGATCCGGCAAACAACCACCGCTGGTAGCGGTGGTT TTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAGAA GATCCTTTGATCTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCA CGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATC CTTTT at cggtgtgaaat accgcacagat gcgtaag gagaaaat accgcat caggaaat tgtaag cgttaat aat tcaggaaaat accgcat caggaaaat tgtaag cgttaat aat tcaggaaaat accgcat caggaaaat tgtaag cgttaat aat tcaggaaaat accgcat caggaaaat accgcat caggaaaat tgtaag cgttaat aat tcaggaaaat tgtaag cgttaat accgcat caggaaaat tgtaag cgttaat accgcat caggaaat tgtaag cgttaat accgcat caggaaat cgtaag cgtgt cag c ccatte geograag ctette agea at a tea egg tag cea acget at gt cet gat age gg te ege cae accea gg tag cea acget at gt cet gat age gg te ege cae accea gg tag cea acget at geographic geographccggccacagtcgatgaatccagaaaagcggccattttccaccatgatattcggcaagcaggcatcgccatgggtcacga cgagatectegeegtegggeatgetegeettgageetggegaacagtteggetggegegageeeetgatgetettegtee agat catcct gatega caa gaccgg cttc catccg agtacgt gctcgctcgatgcg at gtttcgctt ggt ggtcgaatggg catcgct gategatgcg at get gategatgcg at gategatgcg at get gategatgcg at gategatgaggtag ccggat caagcgtatg cagccgccgcattg catcagccatgatgatactttctcgg caggag caaggtgag at the control of the congacaggagatectgecceggeacttegeccaatageagecagtecetteegetteagtgacaaegtegageaeagetge 

FIGURE 35A

ggtcttgacaaaaagaaccgggcgcccctgcgctgacagccggaacacggcggcatcagagcagccgattgtctgttgt gcccagtcatagccgaatagcctctccacccaagcggccggagaacctgcgtgcaatccatcttgttcaatcatgcgaaac gatcctcatcctgtctcttgatcagagcttgatcccctgcgccatcagatccttggcggcgagaaagccatccagtttacttt gcagggcttgtcaaccttaccagatAAAAGTGCTCATCATTGGAAAACGTTCAATTcTGAG GCGGAAAGAACCAGCTGTGGAATGTGTGTCAGTTAGGGTGTGGAAAGTCC CCAGGCTCCCCAGCAGGCAGAAGTATGCAAAGCATGCATCTCAATTAGTCA GCAACCAGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGCAGAAGTATGCA AAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCCTAACTCCGCC CATCCGCCCTAACTCCGCCCAGTTCCGCCCATTCTCCGCCCCATGGCTG ACTAATTTTTTTATTTATGCAGAGGCCGAGGCCGCCTCGGCCTCTGAGCT ATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGGCTTTTGCAAAAA GCTTGATTCTTCTGACACAACAGTCTCGAACTTAAGGCTAGAGCCACCATG ATTGAACAAGATGGATTGCACGCAGGTTCTCCGGCCGCTTGGGTGGAGAG GCTATTCGGCTATGACTGGGCACAACAGACAATCGGCTGCTCTGATGCCGC CGTGTTCCGGCTGTCAGCGCAGGGGCCCCGGTTCTTTTTGTCAAGACCGA CCTGTCCGGTGCCCTGAATGAACTGCAGGACGAGGCAGCGCGGCTATCGT GGCTGGCCACGACGGCGTTCCTTGCGCAGCTGTGCTCGACGTTGTCACTG AAGCGGGAAGGGACTGGCTGCTATTGGGCGAAGTGCCGGGGCAGGATCTC CTGTCATCTCACCTTGCTCCTGCCGAGAAAGTATCCATCATGGCTGATGCA ATGCGGCGGCTGCATACGCTTGATCCGGCTACCTGCCCATTCGACCACCAA GCGAAACATCGCATCGAGCGAGCACGTACTCGGATGGAAGCCGGTCTTGT CGATCAGGATGATCTGGACGAAGAGCATCAGGGGCTCGCGCCAGCCGAAC - TGTTCGCCAGGCTCAAGGCGCGCATGCCCGACGGCGAGGATCTCGTCGTG ACCCATGGCGATGCCTGCTTGCCGAATATCATGGTGGAAAATGGCCGCTTT TCTGGATTCATCGACTGTGGCCGGCTGGGTGTGGCGGACCGCTATCAGGAC ATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGGCGGCGAATGGGCT GACCGCTTCCTCGTGCTTTACGGTATCGCCGCTCCCGATTCGCAGCGCATC GCCTTCTATCGCCTTCTTGACGAGccaTTCtgctggcaggtaagtcgcagccctggcgtcgtgatt tggactaattatggacaggactgaacgtcttgctcgagatgtgatgaaggagatgggaggccatcacattgtagccctctg tgtgctcaaggggggctataaattctttgctgacctgctggattacatcaaagcactgaatagaaatagtgatagatccattc ctatgactgtagattttatcagactgaagagctattgtaatgaccagtcaacaggggacataaaagtaattggtggagatgat ctctcaactttaactggaaagaatgtcttgattgtggaagatataattgacactggcaaaacaatgcagactttgctttccttg gtcaggcagtataatccaaagatggtcaaggtcgcaagcttgctggtgaaaaggacccacgaagtgttggatataagcc agactttgttggatttgaaattccagacaagtttgttgtaggatatgcccttgactataatgaatacttcagggatttgaatcatgtttgtgtcattagtgaaactggaaaagcaaaatacaaagcctaaGCGGCCGCTAACCTGGTTGCTGA CTAATTGAGATGCATGCTTTGCATACTTCTGCCTGCGGGAGCCTGGGGA CTTTCCACACCCTAACTGACACACATTCCACAGCTGGTTCTTTCCGCCTCAG AAGGTACACAGGCGAAATTGTAAGCGTTAATATTTTGTTAAAATTCGCGTT AAATTTTTGTTAAATCAGCTCATTTTTTAACCAATAGGCCGAAATCGGCAA AATCCCTTATAAATCAAAAGAATAGACCGAGATAGGGTTGAGTGTTGTTCC AGTTTGGAACAAGAGTCCACTATTAAAGAACGTGGACTCCAACGTCAAAG GGCGAAAAACCGTCTATCAGGGCGATGGCCCAC

FIGURE 35B



FRUE 36

GATCTTCAATATTGGCCATTAGCCATATTATTCATTGGTTATATAGCATAAA TCAATATTGGCTATTGGCCATTGCATACGTTGTATCTATATCATAATATGTA CATTTATATTGGCTCATGTCCAATATGACCGCCATGTTGGCATTGATTATTG ACTAGTTATTAATAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATAT ATGGAGTTCCGCGTTACATAACTTACGGTAAATGGCCCGCCTGGCTGACCG CCCAACGACCCCGCCCATTGACGTCAATAATGACGTATGTTCCCATAGTA ACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTACGGTAA ACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTCCGCCCCCT ATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCAGTACATG ACCTTACGGGACTTTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCT ATTACCATGGTGATGCGGTTTTGGCAGTACACCAATGGGCGTGGATAGCG GTTTGACTCACGGGGATTTCCAAGTCTCCACCCCATTGACGTCAATGGGAG TTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTG CGATCGCCCGCCCGTTGACGCAAATGGGCGTAGGCGTGTACGGTGGGA GGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGATCACTGAATTCTG ACGACCTACTGATTAACGGCCATAGAGGCCTCCTGCAGAACTGTCTTAGTG ACAACTATCGATTTCCACACATTATACGAGCCGATGTTAATTGTCAACAGC TCATGCATGACGTCCCGGGAGCAGACAAGCCCGACCATGGCTCGAGTAAT ACGACTCACTATAGGGCGACAGGTGAGTACTCGCTACCTTAAggcctatctggccg tttaaacagatgtgtataagagacagctctcttaaGGTAGCCTGTCTCTTATACACATCTagatccttgctag agt cgac caat to to at gtt fac age ttate at cgcag at cet gag ctt gt ag gt gcac to te agt acaa to tge te the compact of the compact factor of the co-caacaaggcaaggcttgaccgacaattgcatgaagaatctgcttagggttaggcgttttgcgctgcttcgcgatgtacggg ccagatatacgcgtatctgaggggactagggtgtgtttaggcgcccagcggggcttcggttgtacgcggttaggagtccc ct caggata tagtagt tt cgcttt tgcatagg ggggggaaat gt agt ctt at gcaatacact tgt agt ctt gcaacat ggt aan tagt agt ctt at gcaatacact tgt agt ctt gcaacat ggt aan tagt agt ctt at gcaatacact tgt agt ctt gcaacat ggt aan tagt agt ctt at gcaatacact tgt agt ctt gcaacat ggt agt ctt at gcaatacact tgt agt ctt gcaacat ggt agt ctt at gcaatacact tgt agt ctt gcaacat ggt agt ctt at gcaatacact tgt agt ctt gcaacat ggt agt ctt at gcaatacact tgt agt ctt gcaacat ggt agt ctt at gcaatacact tgt agt ctt gcaacat ggt agt ctt at gcaatacact tgt agt ctt gcaacat ggt agt ctt at gcaatacact tgt agt ctt gcaacat ggt agt ctt at gcaatacact tgt agt ctt gcaacat ggt agt ctt at gcaatacact tgt agt ctt agt can be compared to the comparedcgatgagttagcaacatgccttacaaggagaaaaaagcaccgtgcatgccgattggtggaagtaaggtggtacgatcgt agaaggtaaacagaatctggtgattatgggtaagaagacctggttctccattcctgagaagaatcgacctttaaagggtaga attaatttagtteteageagagaaeteaaggaaecteeaeaaggageteattttettteeagaagtetagatgatgeettaaaa cttactgaacaaccagaattagcaaataaagtagacatggtctggatagttggtggcagttctgtttataaggaagccatga at caccagg ccatct taaact att tigtga caagg at cat gcaag act tigaa ag tigacacg titt ticcaga aatt gat tigggang act and tigger aagaaatataaacttctgccagaatacccaggtgttctctctgatgtccaggaggagaaaggcattaagtacaaatttgaagt atatgagaagaatgTTAATTAAgggcaccaataactgccttaaaaaaaattacgccccgccctgccactcatcgcagt act gt t g ta at teat ta a g cat te t g ce g a cat g a a g cat cat g a a ce g cat g a te ggcaccttgtcgccttgcgtataatatttgcccatggtgaaaacgggggcgaagaagttgtccatattggccacgtttaaatca aaactggtgaaactcacccagggattggctgagacgaaaaacatattctcaataaaccctttagggaaataggccaggtttt caccgtaacacgccacatcttgcgaatatatgtgtagaaactgccggaaatcgtcgtggtattcactccagagcgatgaaa acgtttcagtttgctcatggaaaacggtgtaacaagggtgaacactatcccatatcaccagctcaccgtctttcattgccata cggaattccggatgagcattcatcaggcgggcaagaatgtgaataaaggccggataaaacttgtgcttatttttctttacggt ct ttaa aaagg ccg taa tatccagct gaacgg tctgg ttatagg tacatt gag caactgactgaaatgcct caa aatgt tctttacgatgccattgggatatatcaacggtggtatatccagtgatttttttctccattttagcttccttagctcctgaaaatctcgata actcaaaaaatacgccggtagtgatcttatttcattatggtgaaagttggaacctcttacgtgccgatcaacgtctcattttcg ccaaaTTAATTAAGGCGCCCcctcctggctaggagtcacgtaggaataccgacgaaggaactt gggtcgccggtgtgttcgtatatggaggtagtaagacctccctttacaacctaaggcgaggaactgcccttgctattccaca atgtcgtcttacaccattgagtcgtctcccctttggaatggccctggacccggccacaacctggcccgctaagggagtc cattgtctgttatttcatggtctttttacaaactcatatatttgctgaggttttgaaggatgcgattaaggaccttgttatgacaa-like to the control of the control of



agcccgctcctacctgcaatatcagggtgactgtgtgcagctttgacgatggagtagatttgcctccctggtttccacctatg ggcaggagtgatgtaacttgttaggagacgccctcaatcgtattaaaagccgtgtattcccccgcactaaagaataaatccc cagtagacatcatgcgtgctgttggtgtatttctggccatctgtcttgtcaccattttcgtcctcccaacatggggcaattggg catacccatgttgtcacgtcactcagctccgcgtcaacacttctcgcgttggaaaacattagcgacatttacctggtgagc a at caga cat g c g act g cot cotta a at t cac cta a g a at cag cat g cat gagcagcgaaaattcacgccccttgggaggtggcggcatatgcaaaggatagcactcccactctactactgggtatcatat gctgactgtatatgcatgaggatagcatatgctacccggatacagattaggatagcatatactacccagatatagattaggat agcatatgctacccagatatagattaggatagcctatgctacccagatataaattaggatagcatatactacccagatataga ttaggatagcatatgctacccagatatagattaggatagcctatgctacccagatatagattaggatagcatatgctacccag atatagattaggatagcatatgctatccagatatttgggtagtatatgctacccagatataaattaggatagcatatactaccct a a toto tattagga tag catatgctacccgga tacaga ttagga tagcatatactacccaga tatagga tagcatatgctacccagatatagattaggatagcctatgctacccagatataaattaggatagcatatactacccagatatagattaggata gcatatgctacccagatatagattaggatagcctatgctacccagatatagattaggatagcatatgctatccagatatttgg caggtattccccggggtgccattagtggttttgtgggcaagtggttigaccgcagtggttagcggggttacaatcagccaa gttattacacccttattttacagtccaaaaccgcagggcggcgtgtggggggtgacgcgtgccccactccacaatttcaaa aaaaagagtggccacttgtctttgtttatgggccccattggcgtggagccccgtttaattttcgggggtgttagagacaaccagtggagtccgctgctgtcggcgtccactctctttccccttgttacaaatagagtgtaacaacatggttcacctgtcttggtccc tgcctgggacacatettaataaccccagtatcatattgcactaggattatgtgttgcccatagccataaattcgtgtgagatgg gcccaaggggtttgtgagggttatattggtgtcatagcacaatgccaccactgaacccccgtccaaattttattctggggg cgtcacctgaaaccttgttttcgagcacctcacatacaccttactgttcacaactcagcagttattctattagctaaacgaagg agaatgaagaagaagattcaggaggattcactgcccgctccttgatcttcagccactgcccttgtgactaaaatg gt cactaccc tcg tgg a a tcctg accccat gta a at a aa accgt gac agct cat ggg gt ggg a gat at cgct gt tcct taggaccettttactaaccetaattcgatagcatatgcttcccgttgggtaacatatgctattgaattagggttagtctggatagtatatactactaccogggaagcatatgctaccogtttagggttaacaagggggccttataaacactattgctaatgccctcttgag ggtccgcttatcggtagctacacaggcccctctgattgacgttggtgtagcctcccgtagtcttcctgggcccctgggaggt aagtctgctccaggatgaaagccactcagtgttggcaaatgtgcacatccatttataaggatgtcaactacagtcagagaac atgcactgccccgaatacaaaacaaaagcgctcctcgtaccagcgaagaaggggcagagatgccgtagtcaggtttagtt cgtccggcggcggGCGGCCGCAAGGCGCGCCGGATCCACAGGACGGGTGTGGTC GCCATGATCGCGTAGTCGATAGTGGCTCCAAGTAGCGAAGCGAGCAGGAC TGGGCGGCGGCAAAGCGGTCGGACAGTGCTCCGAGAACGGGTGCGCATA GAAATTGCATCAACGCATATAGCGCTAGATCCTTGCTAGAGTCGAGATCTG TCGAGCCATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGG CCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGCATCACA AAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGA TACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCGACC CTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGCG CTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTCGCT CCAAGCTGGGCTGTGCACGAACCCCCGTTCAGCCCGACCGCTGCGCCT TATCCGGTAACTATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGC CACTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGC GGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAG GACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAG AGTTGGTAGCTCTTGATCCGGCAAACAACCACCGCTGGTAGCGGTGGTT-



TTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAGAA GATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACTCA CGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATC CTTTTATCGGTGTGAAATACCGCACAGATGCGTAAGGAGAAAATACCGCAT CAGGAAATTGTAAGCGTTAATAATTCAGAAGAACTCGTCAAGAAGGCGAT AGAAGGCGATGCGCTGCGAATCGGGAGCGGCGATACCGTAAAGCACGAGG AAGCGGTCAGCCCATTCGCCGCCAAGCTCTTCAGCAATATCACGGGTAGCC AACGCTATGTCCTGATAGCGGTCCGCCACACCCAGCCGGCCACAGTCGATG AATCCAGAAAAGCGGCCATTTTCCACCATGATATTCGGCAAGCAGGCATCG CCATGGGTCACGACGAGATCCTCGCCGTCGGGCATGCTCGCCTTGAGCCTG GCGAACAGTTCGGCTGGCGCGAGCCCCTGATGCTCTTCGTCCAGATCATCC TTCGCTTGGTGGTCGAATGGCCAGGTAGCCGGATCAAGCGTATGCAGCCG CCGCATTGCATCAGCCATGATGGATACTTTCTCGGCAGGAGCAAGGTGAG ATGACAGGAGATCCTGCCCGGCACTTCGCCCAATAGCAGCCAGTCCCTTC CCGCTTCAGTGACAACGTCGAGCACAGCTGCGCAAGGAACGCCCGTCGTG GACAGGTCGGTCTTGACAAAAAGAACCGGGCGCCCCTGCGCTGACAGCCG GAACACGGCGCATCAGAGCAGCCGATTGTCTGTTGTGCCCAGTCATAGCC GAATAGCCTCTCCACCCAAGCGGCCGGAGAACCTGCGTGCAATCCATCTTG TTCAATCATGCGAAACGATCCTCATCCTGTCTCTTGATCAGAGCTTGATCC CCTGCGCCATCAGATCCTTGGCGGCGAGAAAGCCATCCAGTTTACTTTGCA **GGGCTTGTCAACCTTACCAGATAAAAGTGCTCATCATTGGAAAAAcattcaattcgt** cgacctcgaaattctaccgggtaggggggggcttttcccaaggcagtctggagcatgcgctttagcagccccgctgggc acttggcgctacacaagtggcctctggcctcgcacacattccacatccaccggtaggcgccaaccggctccgttctttggt ggccccttcgcgccaccttctactcctcccctagtcaggaagttccccccgccccgcanctcgcgtcgtgcaggacgtg acaaatggaaatagcacgtctcactagtctcgtgcagatggacaagcaccgctgagcaatggagcgggtaggcctttggg gggcgggctcaggggcggggcgcccgaaggtcctccggaggcccggcattctgcacgcttcaaaagcgcacgtccgagtacaagcccacggtgcgcctcgccacccgcgacgtcccccgggccgtacgcaccctcgccgcgcgttcg cogactaccccgccacaccgtcgacccggaccgccacatcgagcggtcaccgagctgcaagaactcttcctcacgcgcgtcgggctcgacatcggcaaggtgtgggtcgcggacgacggcgcgcgggtggggtctggaccacgccg gagagcgtcgaagcgggggggggtgttcgccgagatcggcccgcgcatggccgagttgagcggttcccggctggccgcgcagcaacagatggaaggcctcctggcgccgcaccgggcccaaggagcccgcgtggttccttggcccaccgtcgggc gtcttcgcccgaccaccagggcaagggtctggcaagcgccgtcgtgctccccggagtggaggcggccgagcgccg gggtgcccgccttcctggagacctccgcgccccgcaacctccccttctacgagcggctcggcttcaccgtcaccgccgac gcgcccgaccgaaaggagcgcacgaccccatgcatcgatggcactgggcaggtaagtatcaaggttagcGGCCGC GGGGAGCCTGGGGACTTTCCACACCCTAACTGACACACATTCCACAGCTGG TTCTTTCCGCCTCAGAAGGTACACAGGCGAAATTGTAAGCGTTAATATTTT GTTAAAATTCGCGTTAAATTTTTGTTAAATCAGCTCATTTTTTAACCAATAG GCCGAAATCGGCAAAATCCCTTATAAATCAAAAGAATAGACCGAGATAGG GTTGAGTGTTGTTCCAGTTTGGAACAAGAGTCCACTATTAAAGAACGTGGA CTCCAACGTCAAAGGGCGAAAAACCGTCTATCAGGGCGATGGCCCAC

FIGURE 37C